

Title (en)

APPARATUS FOR PROVIDING HIGH QUALITY POWER

Title (de)

VORRICHTUNG ZUR BEREITSTELLUNG VON QUALITATIV HOCHWERTIGER ENERGIEVERSORGUNG

Title (fr)

APPAREIL PERMETTANT D'OBTENIR UN COURANT DE BONNE QUALITE

Publication

EP 1556746 A4 20060104 (EN)

Application

EP 03779461 A 20031103

Priority

- US 0334999 W 20031103
- US 42312702 P 20021101
- US 45323503 P 20030310

Abstract (en)

[origin: WO2004040956A2] The system disclosed herein is primarily utilized in the 23-48 volt DC telco, data center and industrial production industry. It will effectively replace today's requirement of purchasing, installing, maintaining and replacing chemical storage batteries. The solution will be capable of deployment partially and in full, inside the building, outside of the building in environmentally enclosed containers or in a mobile version. Additionally, the distribution voltage application will allow for reduction in the size of the power distribution wiring as well as creating an environment that requires less cooling of the critical equipment. This effectively leads to less infrastructure space and equipment, i.e. UPS, air conditioning units, static switch units, generators and chillers, for the same amount of processing, and significantly increases overall system reliability. The system regulates AC power and produces DC power that is considered uninterruptible and that is high quality in nature.

IPC 1-7

H02J 9/06; **H02J 1/00**

IPC 8 full level

G05D 11/00 (2006.01); **H02J 1/00** (2006.01); **H02J 9/06** (2006.01); **H02J 9/08** (2006.01); **H02K 7/02** (2006.01); **H02P 9/04** (2006.01)

CPC (source: EP KR US)

H02J 9/066 (2013.01 - EP US); **H02J 9/08** (2013.01 - EP US); **H02P 9/04** (2013.01 - KR)

Citation (search report)

- [XAY] WO 0193410 A1 20011206 - SURE POWER CORP [US]
- [XAY] US 5612581 A 19970318 - KAGEYAMA HIRONOBU [JP]
- [XAY] US 5942811 A 19990824 - STUMFALL DAVID M [US], et al
- [A] US 6184593 B1 20010206 - JUNGREIS AARON M [US]
- [A] M. DAVID KANKAM, MALIK E. ELBULUK: "A Survey of Power Electronics Applications in Aerospace Technologies", 36TH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE, SAVANNAH, GEORGIA, JULY 29-AUGUST 2, 2001, 30 November 2001 (2001-11-30), XP002349684, Retrieved from the Internet <URL:http://gltrs.grc.nasa.gov/reports/2001/TM-2001-211298.pdf> [retrieved on 20051017]
- See references of WO 2004040956A2

Citation (examination)

- US 6249411 B1 20010619 - HEMENA WILLIAM [US], et al
- US 5479090 A 19951226 - SCHULTZ CHARLES P [US]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004040956 A2 20040521; **WO 2004040956 A3 20040729**; AU 2003285140 A1 20040607; AU 2003285140 A8 20040607; CA 2504366 A1 20040521; CN 1742244 A 20060301; CN 1742244 B 20111214; EP 1556746 A2 20050727; EP 1556746 A4 20060104; HK 1089516 A1 20061201; JP 2006505240 A 20060209; KR 20050070113 A 20050705; US 2004150374 A1 20040805; US 2007052294 A1 20070308; US 7141894 B2 20061128; US 7462954 B2 20081209

DOCDB simple family (application)

US 0334999 W 20031103; AU 2003285140 A 20031103; CA 2504366 A 20031103; CN 200380102749 A 20031103; EP 03779461 A 20031103; HK 06109724 A 20060831; JP 2005502259 A 20031103; KR 20057007717 A 20050430; US 59385906 A 20061107; US 70007603 A 20031103